



## MECKLENBURG COUNTY

Land Use and Environmental Services Agency Code Enforcement

### CODE INTERPRETATION

## Mechanical/Plumbing

**Code Volume Reference:** NC Plumbing Code (2012)

**Code Chapter Reference:** 403.1.1 Exception #2

**Subject:** Fixture Calculations – Reduction for Pools

**Effective Date:** October 3, 2014

**Prepared/Revision Date:** October 3, 2014

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### CODE:

**403.1.1 Fixture calculations.** To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with Table 403.1. Fractional numbers resulting from applying the fixture ratios of Table 403.1 shall be rounded up to the next whole number. For calculations involving multiple *occupancies*, such fractional numbers for each *occupancy* shall first be summed and then rounded up to the next whole number.

#### **Exceptions:**

1. The total occupant load shall not be required to be divided in half where *approved* statistical data indicates a distribution of the sexes of other than 50 percent of each sex.
2. In buildings that contain dwellings or sleeping units that have a pool dedicated to the residents, a percentage reduction of the total required fixtures provided for a pool and pool deck without bleachers and grandstands may be taken equal to the percentage of total residential units whose entries fall within 500 feet of the pool deck.

### INTERPRETATION:

Exception #2 was added by North Carolina to allow a reduction in required plumbing fixtures for residents that have a dwelling or sleeping unit within 500 feet of the dedicated pool. The code language states the units that fall within 500 feet can be used for the reduction, it does not say

travel distance. In this interpretation we have provided two methods to measure the distance to the units, one for resident buildings that contain an elevator and one for buildings that do not have an elevator.

#### **Method #1 – Elevator Provided**

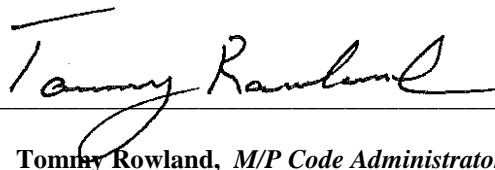
A radius can be drawn outward to 500 feet from the pool deck. If the entrance of the dwelling or sleeping units fall within the radius, then you can utilize the dwelling or sleeping unit for the reduction; regardless of the floor it is on.

#### **Method #2 – No Elevator Provided**

A straight horizontal line can be drawn outward from the pool deck to the entrance of each of the resident buildings. The distance of this straight line plus the addition of the travel distance from the building's entrance to the dwelling or sleeping unit's entrance (including stairs), must be equal to or less than 500 feet to utilize that unit in the reduction.

*Exception #2 does not state travel distance, but it is not the intent to travel 500 feet to the building's entrance and another 100 feet to the dwelling or sleeping unit's entrance. Travel distance is not considered to be increased by the use of an elevator.*

Approved By: \_\_\_\_\_



**Tommy Rowland, M/P Code Administrator**